CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-II/GR/2017-18 05.05.2017

TEST REPORT ON GRADATION FOR COARSE GRADED GARNULAR SUB BASE

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of work**	:	Improvements of CC roads in 2nd,2nd A,12th A,12th B, 13th A, 13th B & 14th Cross Roads near old KEB office in Kalyananagara in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/39/2017-18 Dated: 20.04.2017
*** Sample ID**	:	Coarse Graded-II
Technical Reference	:	IS : 2720 (Part - 4), MORTH Table : 400-02
Date of Testing	:	05.05.2017

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	-	-	-	100	100
26.5	2225	2225	44.50	55.50	50-80
4.75	1595	3820	76.40	23.60	15-35
0.075	785	4605	92.10	7.90	0-10
PAN	395				
Total	5000				

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading II

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಚ್. ಕೆಬ್, ಕಲ್ಯಾಣನಗರ, ಬೆಂಗಳೂರು

Civil-tech Consultants & Engineers
#23/14, 7th Cross, 3rd Stage, 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-II/AL/2017-18 Date 05.05.2017

TEST REPORT ON ATTERBERG LIMITS FOR GRANULAR SUB BASE

***Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
***Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
***Name of work**	:	Improvements of CC roads in 2nd,2nd A,12th A,12th B, 13th A, 13th B & 14th Cross Roads near old KEB office in Kalyananagara in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
***Reference**	:	BBMP/EE/DD/WO/39/2017-18 Dated: 20.04.2017
Sample ID	:	GSB- (Coarse graded-II)
Technical Reference	:	IS : 2720 (Part - 5) 1985 (RA-2010), MORTH Table : 400-01
Date of Testing	:	05.05.2017

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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AE-13

ನಗರಾಭಿವೃದ್ಧಿ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಪಶ್ಚಿಮ ವಿಭಾಗ, ಬಸವೇಶ್ವರನಗರ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಬಿ. ರಸ್ತೆ, ರಾಜೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-05/338a/Cube/2017-18

17.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Improvements of CC roads in 2nd,2nd A,12th A,12th B, 13th A, 13th B & 14th Cross Roads near old KEB office in Kalyananagara in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/39/2017-18 Dated: 20.04.2017
*** Sample ID**	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	17.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2017	17.05.2017	8.046	248.3	11.04
2	10.05.2017	17.05.2017	8.127	257.3	11.44
3	10.05.2017	17.05.2017	8.267	284.3	12.64

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AE-13

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VIDYARANI P.K.
Technical Manager

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-05/338a/Cube/2017-18

18.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of the work**	:	Improvements of CC roads in 2nd,2nd A,12th A,12th B, 13th A, 13th B & 14th Cross Roads near old KEB office in Kalyananagara in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/39/2017-18 Dated: 20.04.2017
*** Sample ID**	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	18.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2017	18.05.2017	8.167	235.1	10.45
2	11.05.2017	18.05.2017	8.274	267.5	11.89
3	11.05.2017	18.05.2017	8.376	274.9	12.22

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AE-13

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-05/338a/Cube/2017-18 19.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
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*** Reference**	:	BBMP/EE/DD/WO/39/2017-18 Dated: 20.04.2017
*** Sample ID**	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	19.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2017	19.05.2017	8.167	267.4	11.88
2	12.05.2017	19.05.2017	8.294	284.9	12.66
3	12.05.2017	19.05.2017	8.346	289.4	12.86

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ಮಸ್.ಎಂ. ಆಶ್ರಮ ರಸ್ತೆ, ಬೆಂಗಳೂರು

VIDYARANI P.K.
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